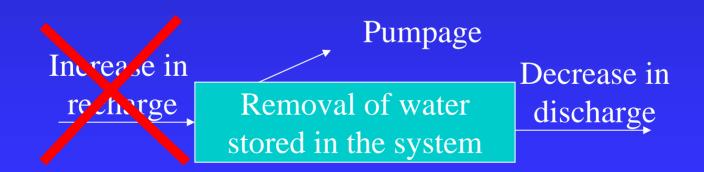
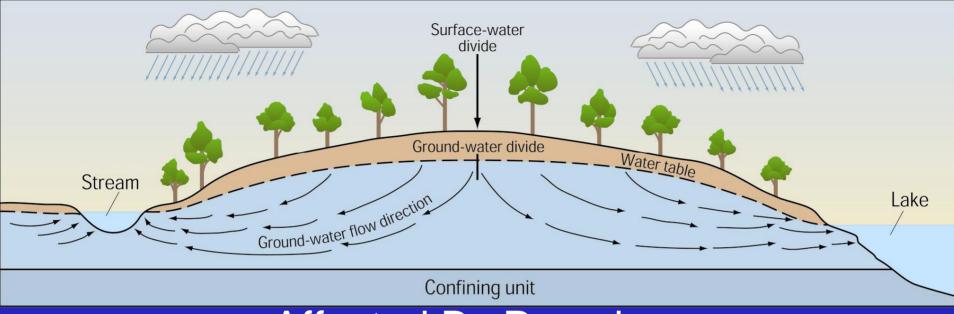
Capture

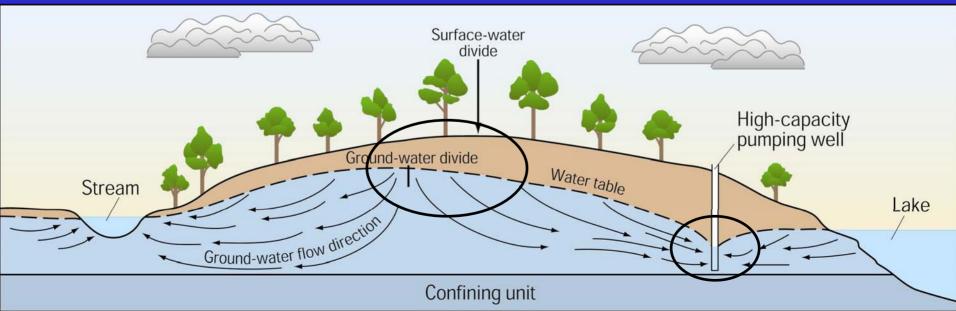




Natural



Affected By Pumping

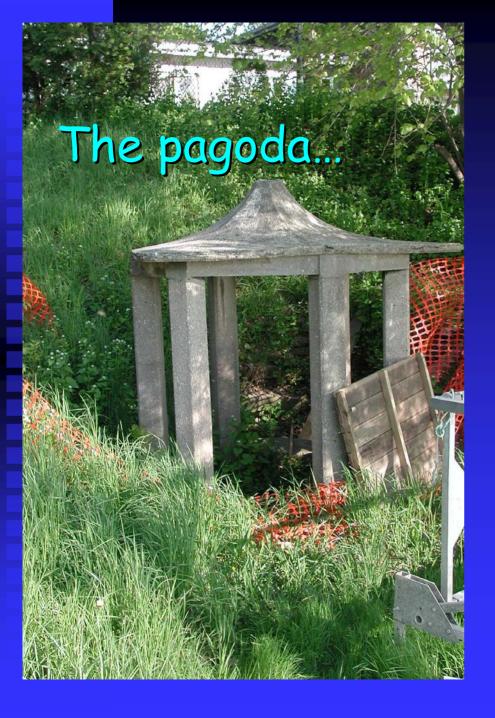




SPRINGHAVEN PAGODA

This was built in the late 1800's to protect the natural spring water in Springhaven, the farm of Judge E. W. Keyes. Later the clear water was used by area children to make lemonade for their picnics, held in what is now Stonebridge Park.

Monona Landmarks Commission and Harold Homburg Family

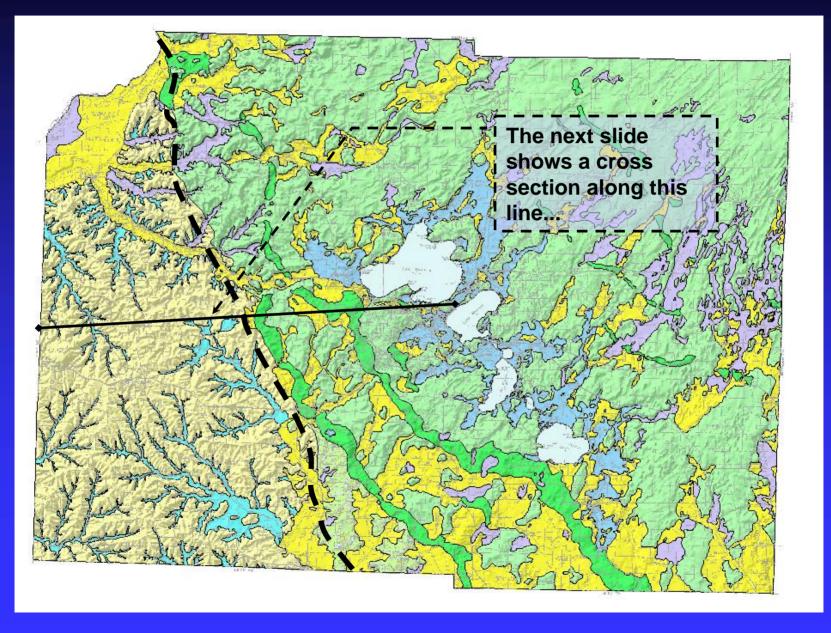




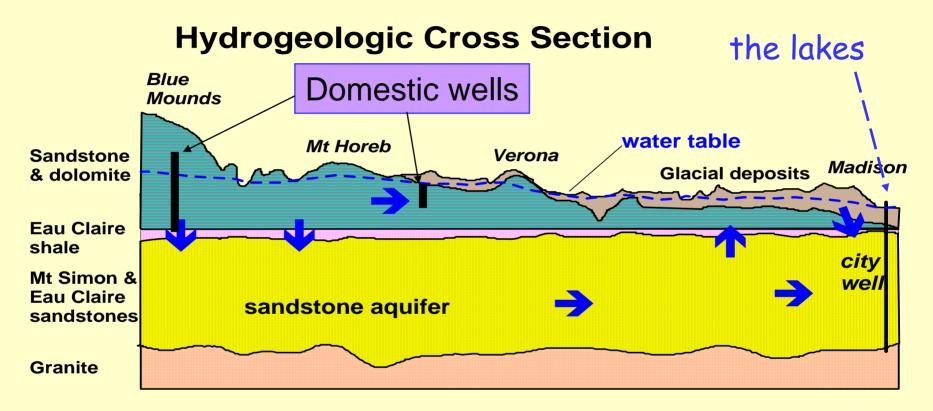
Where's the water?

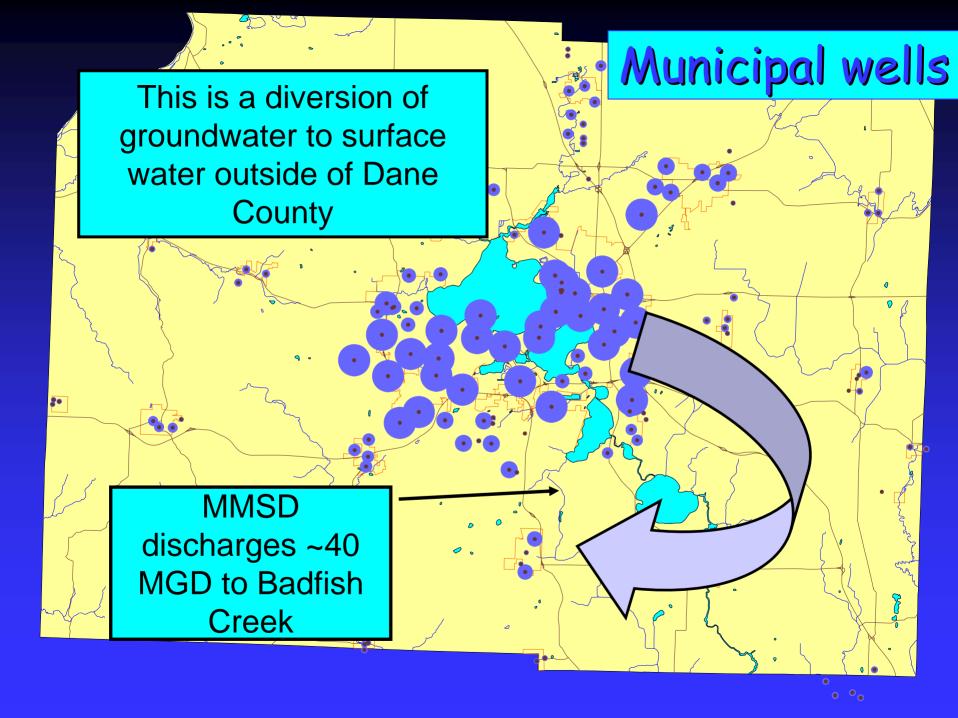


Dane County geology...

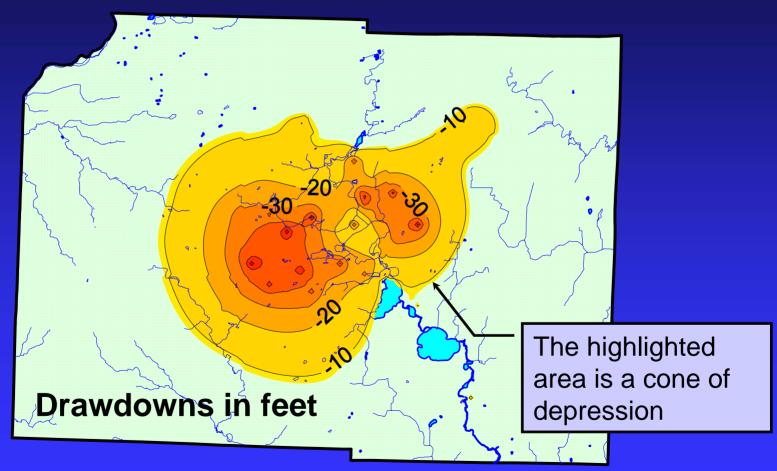


Groundwater moves downward and laterally through Dane County's aquifers...

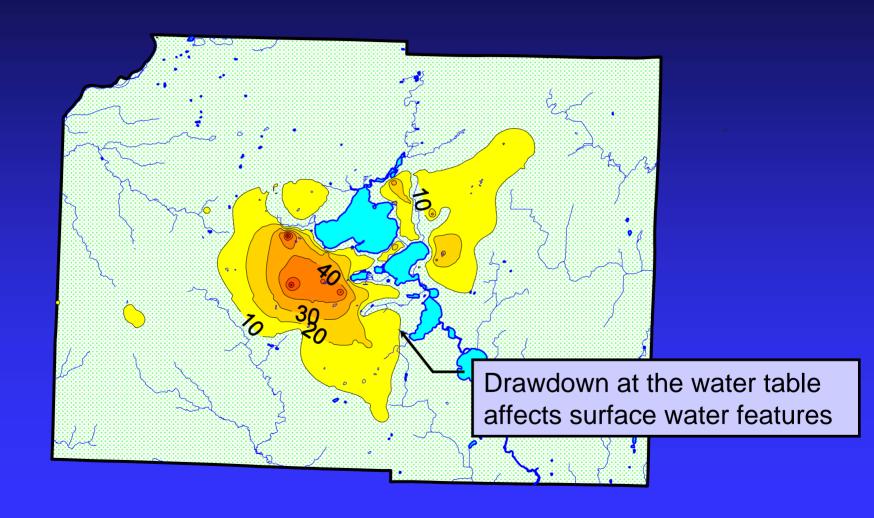




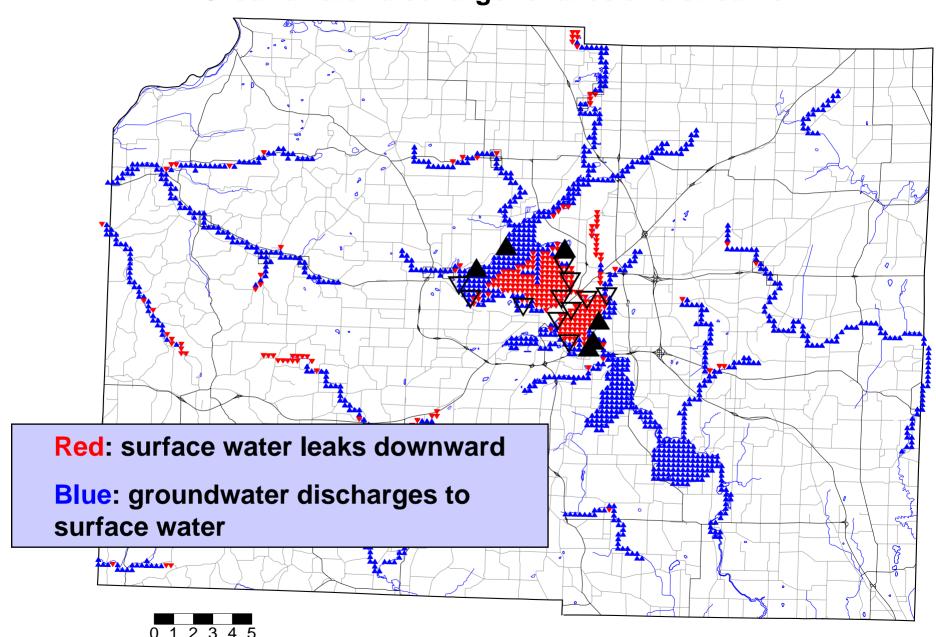
Municipal water use in the Madison area causes significant drawdown, or lowering of water levels, in the deep sandstone aquifer...



Drawdowns in the deep aquifer can affect the water table...reducing flow in streams and water levels in wetlands



Groundwater discharge to lakes and streams



Lake groundwater budgets

Lake	historic	current	change	pct change
	(cfs)	(cfs)	(cfs)	
Mendota	23.9	4.4	-19.5	-82%
Monona	8.7	-1.5	-10.2	-117%
Waubesa	10.3	6.5	-3.8	-37%
Kegonsa	10.2	8.8	-1.4	-14%
Wingra	3.3	1.2	-2.1	-64%
total	56.4	19.4	-37	-66%

Simulated changes in direct groundwater contribution to Madison Lakes resulting from onshore pumping (note that total Dane Co pumping is about 75 CFS)

Pathlines to wells in Dane County form complex patterns

